

ICS 33.040.30
CCS M 12



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 28510-2012

Technical specification of stream control transmission protocol

流控制传送协议 (SCTP)

(English Translation)

Issued on: June 29, 2012

Implemented on: October 1, 2012

Issued by: Standardization Administration of China

Table of Contents

Introduction

1 Scope

2 Normative references

3 Terms and definitions, abbreviations

3.1 Terms and definitions

3.2 Abbreviations

4 SCTP Functional Description

4.1 Overview

4.2 SCTP structure

4.3 SCTP features

5 SCTP primitives defined

5.1 OVERVIEW

5.2 High-level protocol (ULP) request is sent to the SCTP primitives

5.3 SCTP notification sent to the high-level protocol primitives

Format and parameter definitions 6 SCTP packet

6.1 SCTP packet format

6.2 SCTP format data block

Foreword

This standard rule according to GB/T 1.1-2009 given draft.

The standard reference method using redrafted IETF RFC 2960.2000 "Streaming Control Protocol (SCTP)" establishment.

This standard IETF RFC 2960 of non-equivalent, the main differences are as follows.

--- According to Chinese customs for some formatting has been modified;

--- The state transition diagram of SCTP and SCTP program adjustment informative appendices;

--- Not adopted IETF RFC 2960 in Chapter 11, "security considerations", Chapter 13, "IANA considerations" content.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

The standard by the China Communications Standards Association.

This standard was drafted. the Ministry of Industry and Information Technology and Telecommunications Research Institute, ZTE Corporation, Huawei Technologies Co., seashells Seoul Limited.

1 Scope

This standard specifies the signaling stream control transmission protocol (SCTP) function, primitive, formats and parameters defined SCTP packet, SCTP Endpoint maintenance and associated parameters recommended values and SCTP program.

This standard applies to the completion of NO.7 signaling IP network interworking signaling gateway equipment and softswitch IP network for call control in other switches and other equipment.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

IETF RFC1191 passage found in the maximum transmission unit (MTU) of (PathMTUdiscovery) IETF RFC1123 Internet host application requirements and support (RequirementsforInternetHosts-Appli-cationandsupport) IETF RFC1750 random recommendations for security purposes (Randomnessrecommendationsforsecurity) IETF RFC1981 for path MTU discovery of IPV6 (PathMTUDiscoveryforIPversion6) IETF RFC2104 HMAC. message authentication key hashing (HMAC. Keyed-Hashingformessageau-thentication) IETF RFC2460 Internetworking Protocol Version 6 specification (Internetprotocol, version6 (IPv6) Specification) IETF RFC2481 increase in IP layer explicitly Congestion Notification (ECN) recommendations (Aproposaltoaddexplicitcon-gestionnotification (ECN) toIP) IETF RFC2581 TCP congestion control (TCPcongestioncontrol)

3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1

SCTP association SCTPassociation in a correspondence between two SCTP endpoints, which includes two SCTP endpoints, including verification and labels and transfer order number Code and other information, including the protocol status information, a coupling can be coupled by the use of the SCTP transport address to uniquely identify the endpoint in any What time between two SCTP endpoints will not be more than one coupling.

3.1.2

SCTP endpoint SCTP endpoint SCTP packet logic recipient or sender on a host multi-homing, SCTP endpoints may be made of a remote host table Shown as SCTP packet can be sent to a group of qualified transfer destination address, or can receive a group of qualified SCTP packet Transfer origin address all transport address a SCTP endpoint should use the same port number, but you can use multiple IP addresses.

Transport address SCTP endpoint should be unique.